

PROPOSED RESOLUTION

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

RAIL SAFETY DIVISION
RAIL TRANSIT SAFETY BRANCH

Resolution ST-251
December 14, 2023

RESOLUTION

RESOLUTION ST-251. GRANTING APPROVAL OF THE
SACRAMENTO REGIONAL TRANSIT DISTRICT
SAFETY CERTIFICATION PLAN FOR THE
S700 LIGHT RAIL VEHICLE PROCUREMENT

SUMMARY

This Resolution grants the Sacramento Regional Transit District's request for approval of its "Siemens S700 Light Rail Vehicle Safety Certification Plan 2022" dated September 2022.

PROJECT DESCRIPTION

Sacramento Regional Transit District (SRTD) is procuring twenty (20) new light rail vehicles (LRVs) from Siemens Transportation Group as part of its S700 Vehicle Procurement Project. They have an option for up to 76 additional vehicles. The new vehicles will operate on the existing SRTD rail system. The procurement project began in 2020 with an expected scheduled completion and acceptance of all 20 LRVs by the end of 2024. The first LRV is scheduled for delivery in 2023.

BACKGROUND

Commission General Order (GO) 164-E, *Rules and Regulations Governing State Safety Oversight of Rail Fixed Guideway Systems*, Section 11, requires Rail Fixed

Guideway Systems to prepare a project specific Safety Certification Plan (SCP) for each major project and ensure that all entities involved in design, construction, operation, and maintenance of the project shall comply with its requirements. The purpose of the SCP is to describe organizational authority and responsibilities, safety certification activities and processes, and documentation requirements and responsibilities. The SCP requires that elements of the project critical to safety are planned, designed, constructed, analyzed, tested, inspected, and implemented. The SCP also requires that training is to be provided and rules and procedures are followed as the project progresses.

SRTD is required to submit a Safety Certification Verification Report to CPUC staff (Staff) at project completion, that verifies implementation of the SCP requirements.

DISCUSSION

By email dated November 1, 2022, SRTD submitted the Sacramento Regional Transit District “Siemens S700 Light Rail Vehicle Safety Certification Plan 2022,” last updated in September 2022, to Staff for review, and requested Commission approval. The scope of the Light Rail Vehicle Procurement Safety Certification Plan includes verification that the LRV procurement project is in compliance with Commission GO 143-B, *Safety Rules and Regulations Governing Light Rail Vehicles*.

The SCP requires sign off and supporting documentation to demonstrate conformance of the following certifiable factors: GO 143-B Requirements, LRV Technical Specifications, Hazard Resolution, LRV Safety-Related Certification, Multi-Vehicle Acceptance Test, Supplements to Operations and Maintenance Manuals, and Training. The S700 LRVs cannot be placed in revenue service until all certifiable factors have been adequately addressed in the manner prescribed by the SCP.

The new S700 LRVs, identified as the SRTD 400 Series, will be manufactured by Siemens Transportation Systems, Inc., which according to SRTD, will be

functionally and operationally similar the SD9 vehicles purchased by San Diego Metropolitan Transit System, manufactured by Siemens in 2012/2013 and previously certified by CPUC. The S700s are expected to have a 30-year life, which includes a mid-life overhaul. The new vehicles will operate on all lines of the current system. The Procurement is funded through various sources, including the Federal Transit Administration.

The SCP is being filed by SRTD as required by GO 164-E. SRTD worked with Staff to ensure the safety certification plan is comprehensive. Staff reviewed the SCP and found it to be in accordance with GO 164-E. Per General Order 164-E, revisions to the SCP that occur after Commission approval will be subject to Staff approval.

NOTICE

On November 8, 2023, this Resolution was published on the Commission's Daily Calendar.

COMMENTS

The draft resolution of the Rail Safety Division in this matter was mailed in accordance with Section 311 of the Public Utilities Code and Rule 14.2(d)(1) of the Commission's Rules of Practice and Procedure.

_____ comments were received.

FINDINGS

1. By letter dated November 1, 2022, SRTD submitted its " Siemens S700 Light Rail Vehicle Safety Certification Plan 2022," dated September 2022, to Staff for review, and requested Commission approval.
2. The scope of the Light Rail Vehicle Procurement Safety Certification Plan includes verification that the project complies with Commission GO 143-B, Safety Rules and Regulations Governing Light Rail Vehicles.

3. The new LRVs will operate on all lines of the existing SRTD rail system.
4. The SCP requires the following: supplements to operations and maintenance manuals will be made if necessary; the new LRV's will be capable of interfacing with the current LRV models used by SRTD for revenue service; and operations and maintenance personnel will be trained in the rules and procedures before the new LRV's are placed in revenue service.
5. SRTD will issue Conformance Certificates for the seven safety-certifiable factors required for each LRV, with some conformance certificates applicable to all of the LRV's. As each vehicle is prepared for service and documentation submitted, Staff will confirm all testing and Conformance Certificates before authorizing the vehicle for passenger service.
6. The Final Safety Certification Verification Report as required by GO 164-E will be submitted to staff after project completion and SRTD acceptance of all LRV's.
7. Staff reviewed and analyzed the content of the SCP for the Project and found it to be in accordance with GO 164-E, Section 11 and the Rail Transit Safety Branch Program Standard Procedures Manual, State Safety and Security Oversight of Rail Fixed Guideway Systems, Section 9.

THEREFORE, IT IS ORDERED THAT:

1. The Sacramento Regional Transit District's request for approval of its "Siemens S700 Light Rail Vehicle Safety Certification Plan 2022" is granted.
2. Staff will review and confirm that all requirements have been implemented for each vehicle. Each of the LRV's must be approved for revenue service by the RSD Rail Transit Safety Branch Program Manager after Staff confirmation of all testing.

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3. This resolution is effective today.

I certify that this resolution was adopted by the Public Utilities Commission at its regular meeting held on December 14, 2023. The following Commissioners voting favorably thereon:

RACHEL PETERSON
Executive Director